

PROCESS CONTROL TECHNICIAN

NATURE OF WORK

This is skilled technical work assisting in management of operations and process control for large secondary and advanced wastewater and water treatment facilities.

Work involves participating in the oversight and control of major treatment processes. An employee of this class makes technical determinations regarding facilities operation and may establish or modify daily operational goals and strategies. Supervision may be exercised over subordinate facilities staff. Work is performed under the supervision of an administrative superior and is evaluated through reviews of treatment performance and completed projects, and in progress and planning meetings.

EXAMPLES OF WORK PERFORMED

Reviews daily process performance information, including lab data, instrument indications, and visual observation.

Analyzes daily SCADA data, including trends and alarms related to process control.

Sets or changes process control parameters as needed based on reviews, analysis and observations to assure regulatory compliance and treatment efficiency.

Directs activities of and reviews work of subordinate staff; works closely with other technical staff to ensure effective SCADA performance.

Participates in planning and implementation of projects which could affect treatment effectiveness or efficiency.

Verifies the accuracy and reliability of instrumentation used for automated or manual process controls.

Facilitates any required repair or calibration of process instrumentation and assures that the repair or calibration is completed; participates in routine facilities operation as needed.

Assists in managing data required for facility records and for regulatory reporting.

Assesses abnormal operating conditions and takes or recommends appropriate corrective action.

Assists in completing regulatory reports such as quarterly Discharge Monitoring Reports, annual EPA Biosolids Reports and Spill Prevention Control and Countermeasure Reports.

Performs related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Thorough knowledge of wastewater treatment principles, including activated sludge processes, biological nutrient removal, anaerobic digestion and bio solids processing or of water treatment principles including disinfection, filtration and chemical feed processes.

Considerable knowledge of applicable federal and state regulations relating to wastewater discharges and water treatment processes.

Considerable knowledge of wastewater or water treatment facilities maintenance requirements and practices.

Considerable knowledge of wastewater or water treatment process automation principles.

Ability to review and interpret data relating to treatment facility effectiveness.

Ability to maintain records of facilities operation and maintenance.

Ability to facilitate timely and appropriate response to emergencies and abnormal operating conditions.

Ability to make plans that assure treatment effectiveness during projects that require shutdowns or alternate modes of operation.

MINIMUM QUALIFICATIONS

Graduation from high school or equivalent supplemented by at least two years of college-level or technical school course work in environmental science, environmental engineering or related fields, and two years of experience in the operation and maintenance of a wastewater or water treatment facility; or any equivalent combination of training and experience which provides the desirable knowledge, abilities and skills.

NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is necessary for the satisfactory performance of assigned duties.

For employees in Wastewater, possession of a Nebraska Class IV Wastewater Treatment Plant Operator Certification.

For employees in Water, possession of a Nebraska Grade III Water Operator Certification or ability to obtain within one (1) year of hire.